

IN THE CLAIMS:

Please amend the claims as follows (complete listing of claims with markups according to Revised Format):

1-18. (canceled)

- 1 19. (original) A laser system comprising:  
2 a. a laser source for generating laser light comprising laser bursts comprising laser  
3 pulses; and  
4 b. a laser applicator for delivering a portion of the laser light to vascular tissue, such  
5 that the laser light cuts the vascular tissue without causing significant  
6 hemorrhaging.
- 1 20. (original) The system of claim 19, wherein the laser source is configured to generate  
2 laser light with energy corresponding to between 1 and 200 mJ/per pulse.
- 1 21. (original) The system of claim 19, wherein the laser source is configured to generate  
2 the laser bursts with a repetition rate of between 40 and 10 Hz.
- 1 22. (original) The system of claim 19, wherein the laser source is configured to generate  
2 the laser bursts with a separation of less than 2.0 milliseconds.
- 1 23. (original) The system of claim 19, wherein the laser burst comprises 1-24 laser  
2 pulses.
- 1 24. (original) The system of claim 22, the laser pulses are separated by less than 2.0  
2 milliseconds.
- 1 25. (original) The system of claim 23, wherein pulses have pulse widths of less than 100  
2 microseconds.
- 1 26. (currently amended) The system of claim ~~18~~ 19, wherein the laser applicator comprises  
2 a flexible optical fiber with a firing end having a diameter of less than 500 microns.

- 1 27. (original) The system of claim 26, wherein the optical fiber is selected from the  
2 group consisting of fused silica fiber and a sapphire fiber.
- 1 28. (original) The system of claim 26, wherein the applicator further comprises structure  
2 for shielding unwanted laser light from the vascular tissue.
- 1 29. (original) The system of claim 26, wherein the applicator further comprises means to  
2 control a distance of the firing end from the vascular tissue.
- 1 30. (original) The system of claim 29, wherein the means to control the distance of the  
2 firing end from the vascular tissue is a shroud structure.
- 1 31. (original) The system of claim 19, wherein applicator is flexible allowing the laser  
2 light to be delivered to the vascular tissue at a range of approach angles.
- 32-47. (canceled)